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VIBRATION INSTRUMENT CALIBRATION METHOD AND APPARATUS Darlene Turner

Serial No.: 10/629,445 Page 1 of 11

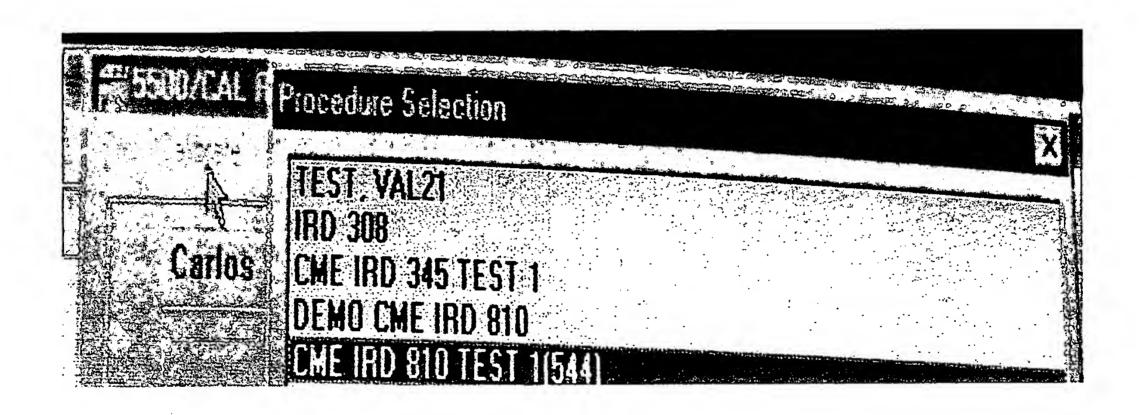
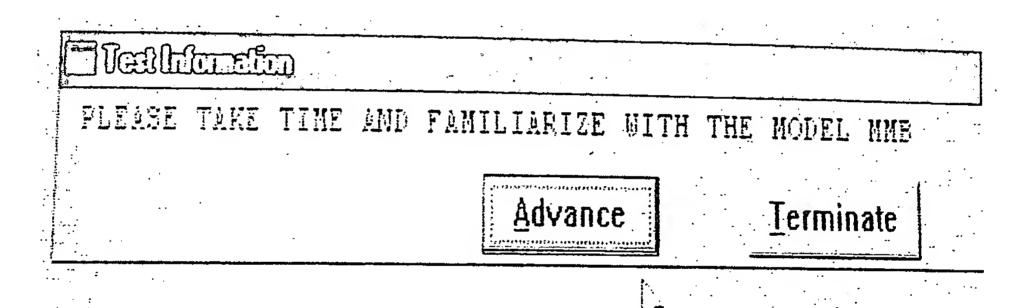
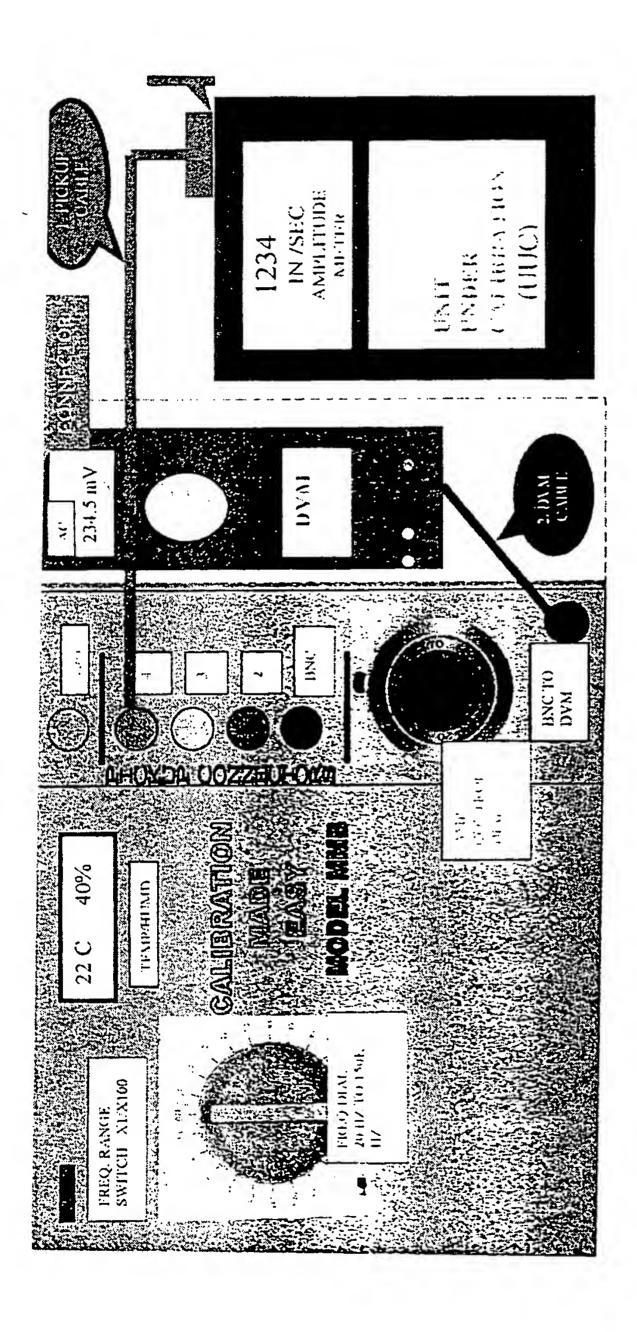


FIG.1

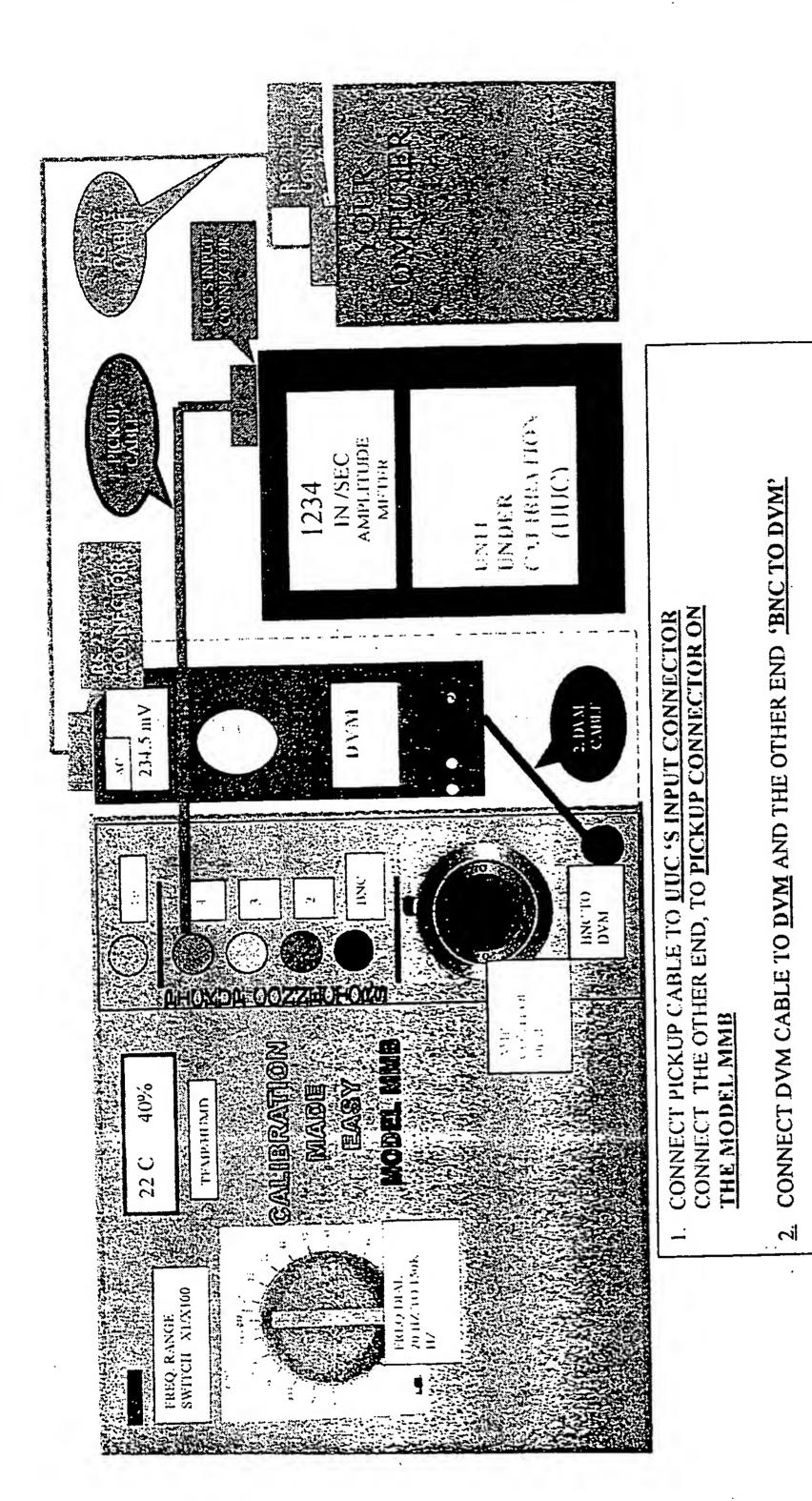
VIBRATION INSTRUMENT CALIBRATION METHOD AND APPARATUS Darlene Turner Serial No.: 10/629,445 Page 2 of 11



Darlene Turner Serial No.: 10/629,445 Page 3 of 11



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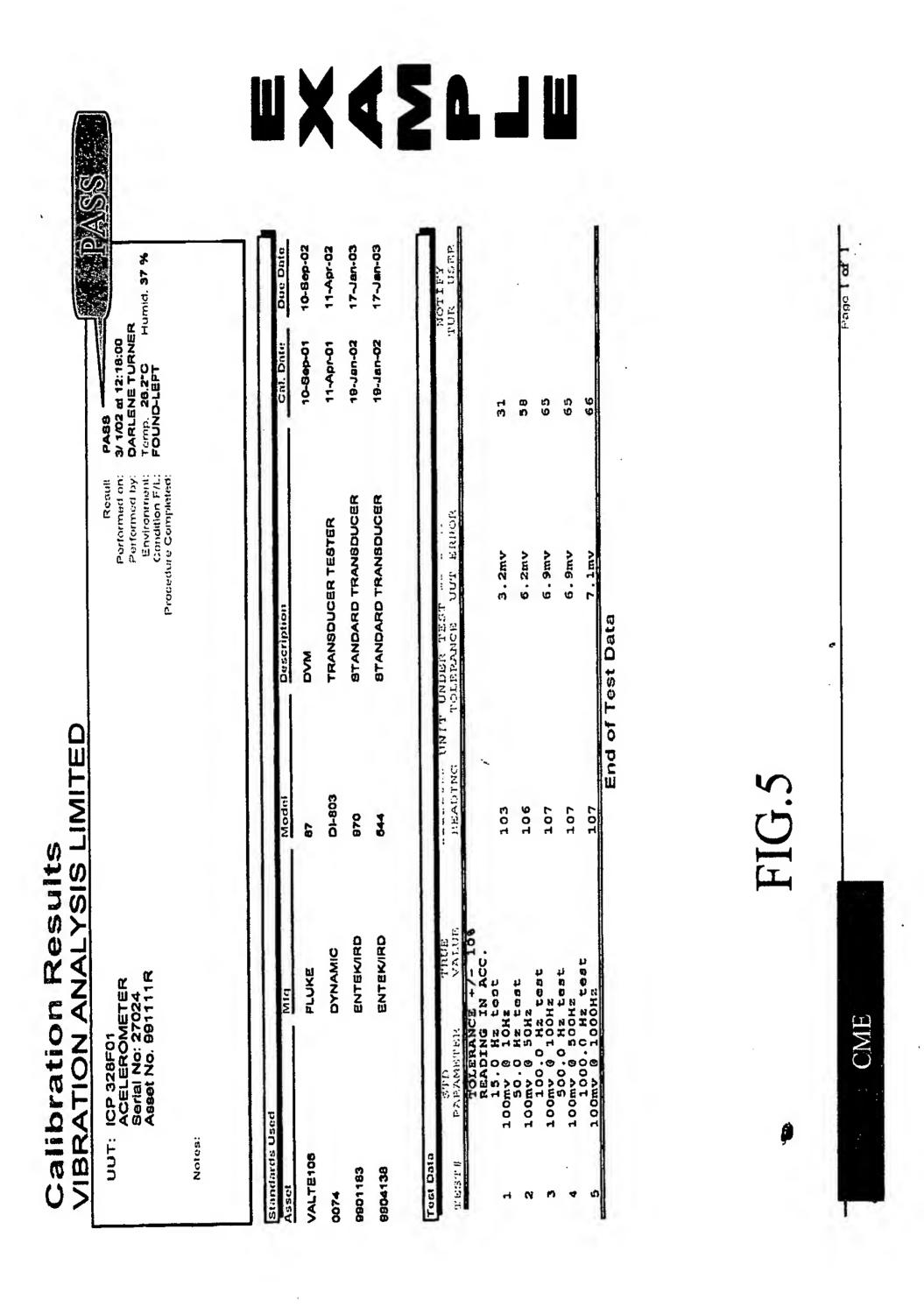
CONNECT RS-232 CABLE TO "RS-232 CONNCTOR"ON THE MODEL DVM", THE

OTHER END TO 'RS-232 ON YOUR COMPUTER'

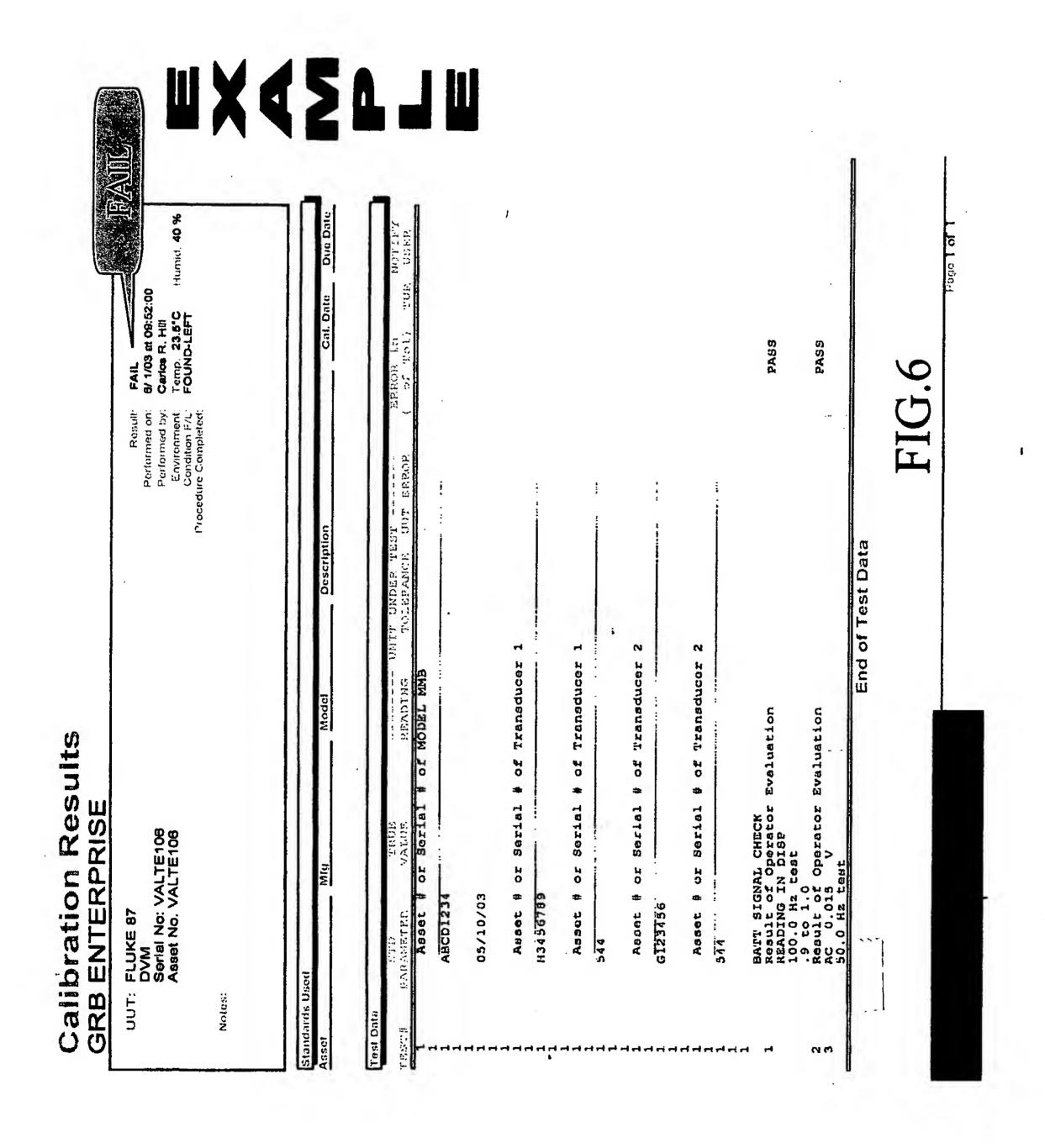
V PROCEDURE ON J'HE COMPUTER

FOLLOY

Darlene Turner Serial No.: 10/629,445 Page 5 of 11



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Calibration

VIBRATION ANALYSIS LIMITED

DRAFT

For Instrument:

www.vibrationanalysis.net

FAX:614-476-0784

614-476-0740

3600 SUNBURY RD. COLUMBUS, OH 43219 1-800-350-4988

Description

ICP 328F01

ACELEROMETER

Serial Number

27012

991111P Asset Number:

specified below; and has been calibrated using standards whose accuracies are traceable to the National institute of Standards and Technology (NIST) within the limitations of the institute's calibration services, ITED TESTING SERVICES HEREBY CERTIFIES THAT: st or exceeded all published specifications at the time of calibration or have been derived from accepted values or physical constants, or have been derived by ratio or self performed with a TUR(Test Uncertainty Ratio) of 4:1 unless et or exceeded all published specifications at the time of activities performed are in compliance with calibration techniques. All test are performed with a TUR(Teatherwise specified, All calibration activities performed are in ANSI/NCSL 2540, ISC/GUIDE 25, AND MIL-STD-45662A. VIBRATION ANALYSIS LIM the above described instrument me

Cat Date Time 3/ 1/02 14:20:00 Mext Cat Due 2/28/03	3/ 1/02 2/28/03	14:20:00	Temperature 26.20°C Humidity 37 %	26.20°C 37 %	Company Address			
Pass Y Seals OK Y	12	Tuch DARLENE TURNER Note	ZNEA		#Od			
Cal Procedura	ICP AC	Cal Procedure ICP ACCELEROMETER				Revision 1.0		
Std. Asset Number		Mig	Model		Description		Cal. Date	Due Dafe
VALTE108 0074 9901183 9904138		FLUKE DYNAMIC ENTEKIRD ENTEKIRD	67 01-803 970 544		DVM TRANSDUCER TESTER STANDARD TRANSDUCER STANDARD TRANSDUCER	TESTER AANSDUCER AANSDUCER	9/10/01 4/11/01 1/19/02 1/19/02	9/10/02 4/11/02 1/17/03

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1/A! 10420014

Darlene Turner Serial No.: 10/629,445 Page 8 of 11

MTTTT

GRB ENTERPRISE hereby certifies that...
the above described instrument met or exceeded all published specifications at the time of calibrations specified below, and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) within the limitations of the institute's calibration services, or have been derived from accepted values or physical constants, or have been derived from accepted values or physical constants, or have been derived from accepted values or physical constants, or have been derived from accepted values or physical constants, or have been derived from accepted values or physical constants.

VALTE106

Serial Number

VALTE106

Asset Number:

Failed Calibration Report

<report substitution mt_user1>
<report substitution mt_user2>

GRB ENTERPRISE

FLUKE 87

For instrument:

Description

DVM

calibration techniques. All calibration activities performed are in compliance with MiL-STD-45862A

CALIBRATION INFORMATION

6 Revision Shop Work Order Temperature 23.60°C Humbellty 40 % Model Tech Carlos R. Hill Note Cal Procedure CME IRD 810 TEST 1(844) STANDARDS USED FOR CALIBRATION Cat Date Time 6/26/03 04:22:00 Next Cal Duo 6/26/03 Pass Seals OK Assol Number

FIG.8

Signed:

Darlene Turner Serial No.: 10/629,445 Page 9 of 11

Notes:	3886 NO. 080		Performed by: Environment: Condition F/L: Procedure Completed:	DARLENE TURNE Temp. 28.2°C FOUND-LEFT	TURNER Humid. 37 %
Standards Used	pos				
Assat	Mfg	Model			
GRETE 1028	AGILENT	34667	6 1/2 MULTIMBTER	Cal. Date	Duo Date
0.01 MT# 1020	GLOBAL	108/2120	GENERATOR	##	11-Apr-02
Test Data					
TESTA	BARAMETER VALUE	TNO - UNIONE	3.5	ROR	> ELOZ
	1 # OF	l'a	Model dor ERROR	4 .	A USBR
1-1-	MODEL BOOOK-ENV	8	POSSES CONTRACTOR		
-1 _F 1					
Hete	American to the sector to of the	Tenneduoer	Water Table	Control of the second	** *****************************
1 ल ल				-	
ì	DING IN ACC		-		
н	DOOR TO THE COLUMN COLU	4.00	•		
C)	38.4mv @ 100Mz	4 6	AWD (o	
r	30.0	?	Omo	0	
	5005	9 · 0	0.2mv	ជា	
•	SOOR STATE	35.6	0.2mv	al.	
	HW TOB	4	1	ı	
	HO THE ST	•	>w=0	0	
	75mv @ 10mg	5.78	0.03mv	n	
	NA G 100HR	57.7	0.2mv	ď	
0	50Hz	31) (
a	ຸກ	606	• (ZA N	
	00	•	>me . v		
	SONS THE STORY	•	-0.02mv	4	
	O HH ROAM	16.4	Ome	· o	
7	COOL	477) fig. 6	•	

Results

bration

GRB ENTERPRISE

Final Validated

Darlene Turner Serial No.: 10/629,445 Page 10 of 11

GRB ENTERPRISE

FINAL VALIDATED Certificate of Calibration

3600 SUNBURY RD.
COLUMBUS, OH 43219
614-476-6839
1-800-350-4988
FAX:614-476-0784
www.calibrationmadecasy.com

451

1500

ENTEKVIRD DATAPAC

nstrument:

For L

Description DATA COLLECTOR
Asset Number: 080 Serial Number 9909396

pecifications at the time of calibration accuracies are traceable to the National the Institute's calibration services, om accepted values or physical constants, or have been derived by ratio braelf All test are performed with a TUR(Test Uncertainty Ratio) of 4:1 unless calibration activities performed are in compliance with GRB ENTERPRISE, HEREBY CERTIFIES THAT:
the above described instrument met or exceeded all published specifications at the time of calibration specified below; and has been calibrated using standards whose accuracies are traceable to the Nationstitute of Standards and Technology (NIST) within the limitations of the institute's calibration service calibration accepted values or physical constants, or have been derived by ratio brise calibration techniques. All test are performed with a TUR(Test Uncertainty Ratio) of 4:1 unless otherwise specified. All calibration activities performed are in compliance with

ANSI/NCSL Z540, ISO/GUIDE 25, ISO/GUIDE 17025, QS-9000, ISO-9000 AND MIL-STD-45662A.

Cal Date Time Next Cal Duo	12/10/01 18:13:00	Temperature 28.20°C Humidity 37 %	Company		
Pass Y Seals OK Y	Tech DARLENE TURNER	αŗ	C/S/Z PO#		
Cal Procedure	Cal Procedure IRD MODEL DATAPAC 1600		Revision 1.0		
Std. Assot Number	Mfg	Model	Description	Cal. Date	
GRBTE1028 GRBTE1026	AGILENT GLOBAL	3468A 105/2120	8 1/2 MULTIMETER GENERATOR	4/11/01	4/11/02 4/30/02
~`					
	Dated Signed:	Tested by:	by:		

Page I of

except for in full, without the

Validated by:

Approved by:

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Form # GRBORO50311

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